

IN THE CLAIMS

Claims 1 and 3-23 are pending. Claim 2 was previously canceled. Claims 5-8, 17 and 20-23 are currently amended. No claims are currently added or canceled. A complete list of claims is presented below with amendments marked up:

Current Listing of Claims

1. (Previously presented) An arc lamp comprising:
 - an anode;
 - a cathode;
 - a body defining a cavity, wherein the anode and the cathode are inside the cavity;
 - a filter mounted within the cavity; and
 - a washer to hold the filter in place within the cavity.
2. (Canceled).
3. (Previously presented) An arc lamp comprising:
 - an anode;
 - a cathode;
 - a body defining a cavity, wherein the anode and the cathode are inside the cavity;and
 - a filter mounted within the cavity, wherein the filter includes an aperture through which the cathode goes.

4. (Original) The arc lamp of claim 3, wherein the filter is coated with a coating substantially over the aperture, the coating selected from a group consisting of an ultra violet suppression coating and an infrared rejection coating.
5. (Currently amended) ~~The arc lamp of claim 1,~~ An arc lamp comprising:
an anode;
a cathode;
a body defining a cavity, wherein the anode and the cathode are inside the cavity;
a filter mounted within the cavity, wherein the filter is made of narrow bandpass glass; and
a washer to hold the filter in place within the cavity.
6. (Currently amended) The arc lamp of claim ~~[[1]]~~5, wherein the filter is made of heat absorbing glass.
7. (Currently amended) The arc lamp of claim ~~[[1]]~~5, wherein the filter comprises a circular quartz disc.
8. (Currently amended) The arc lamp of claim ~~[[1]]~~5, wherein the filter operates within a temperature range of -40°C to 500°C .
9. (Original) An arc lamp comprising:
a body defining a cavity;
an anode;

a cathode substantially aligned with the anode to define an arc gap in between;
a strut holding the cathode; and
a filter mounted within the cavity between the strut and the arc gap.

10. (Original) The arc lamp of claim 9, wherein the filter includes an aperture through which the cathode goes.

11. (Original) The arc lamp of claim 9, wherein the filter is coated with a coating substantially over the aperture, the coating selected from a group consisting of an ultra violet suppression coating and an infrared rejection coating.

12. (Original) The arc lamp of claim 9, wherein the filter is made of narrow bandpass glass.

13. (Original) The arc lamp of claim 9, wherein the filter is made of heat absorbing glass.

14. (Original) The arc lamp of claim 9, wherein the filter comprises a circular quartz disc.

15. (Original) The arc lamp of claim 9, wherein the filter operates within a temperature range of -40°C to 500°C .

16. (Original) A method to make an arc lamp, the method comprising:

mounting a filter within a cavity defined by a body of the arc lamp; and
coupling a washer to the filter to hold the filter in place.

17. (Currently Amended) ~~The method of claim 16,~~ A method to make an arc lamp, the method comprising:

mounting a filter within a cavity defined by a body of the arc lamp; and
coupling a washer to the filter to hold the filter in place, wherein the filter defines
an aperture substantially centered on the filter.

18. (Original) The method of claim 17, further comprising mounting a cathode
through the aperture of the filter.

19. (Original) The method of claim 17, further comprising putting a coating
substantially over the aperture, the coating selected from a group consisting of an
ultra violet suppression coating and an infrared rejection coating.

20. (Currently Amended) The method of claim ~~[[16]]~~17, wherein the filter is made of
narrow bandpass glass.

21. (Currently Amended) The method of claim ~~[[16]]~~17, wherein the filter is made of
heat absorbing glass.

22. (Currently Amended) The method of claim ~~[[16]]~~17, wherein the lamp operates
within a temperature range of -40°C to 500°C .

23. (Currently Amended) The method of claim ~~[[16]]~~17, wherein the filter comprises a circular quartz disc.